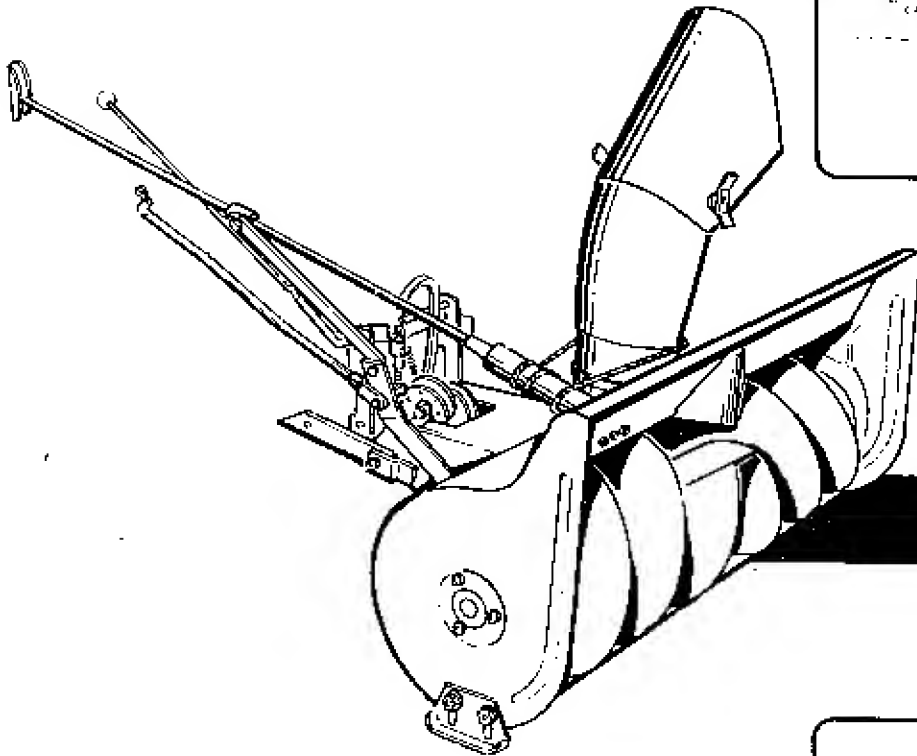
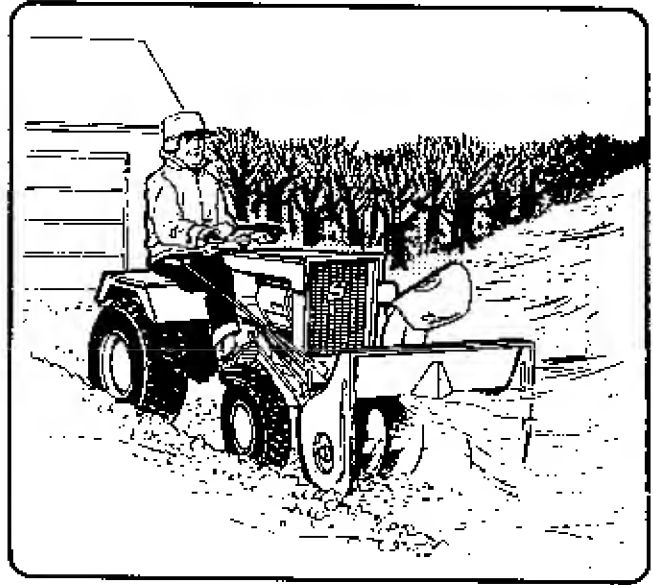


Simplicity



Mfrs. No. 519

**36" ROTARY
SNOW THROWER**



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SIMPLICITY MANUFACTURING COMPANY, INC.

UTO IN U.S.A.

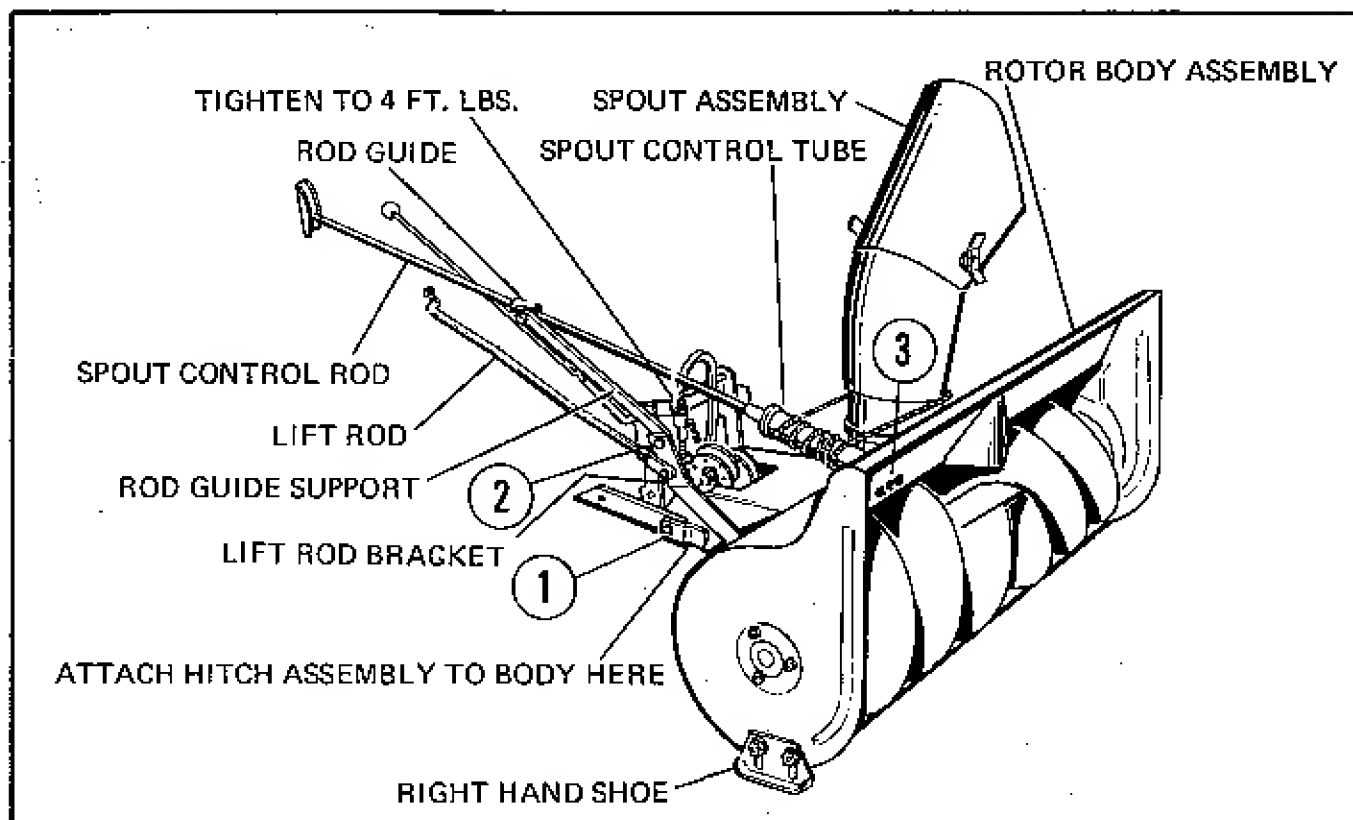


Figure 1.

PACKING

The 36" Rotary Snow Thrower is delivered complete in one carton. The carton contains:

- 1 - Hitch Assembly
- 1 - Lift Rod Assembly
- 1 - Clutch Rod Assembly
- 1 - Spout Control Rod
- 1 - Spout Tube and Rope Assembly
- 1 - Spout Control Rod Support
- 1 - Heat Deflector Clamp
- 2 - Skid Shoes
- 1 - Engine Pulley
- 1 - Clutch Rod Bracket
- 1 - Pulley Cover
- 1 - Spout Assembly
- 1 - Body and Rotor Assembly
- 1 - Bag of Hardware
- 1 - Winter Gas Cap

Should any shortages of the above items occur, advise by stating packers number listed on

green packing slip, part number and description of items missing.

ASSEMBLY

1. Attach hitch assembly to rotor body assembly with the 3/8"-24 x 1-1/2" long hex. head bolt, 3/8" plain and 3/8" spring washer. Secure in place with the 3/8"-24 hex full lock nut. See (1), Figure 1. Tighten with sufficient pressure to keep hitch from drooping when installing thrower to tractor.

2. Place V-belt around pulley in rotor body housing. Position belt guard around pulley. Make sure guard hits under side of housing. (Ref. Let. AT Page 8).

3. Apply a light coat of grease to front P.T.O. shaft. Remove all burrs and rough edges from key way and bore of engine pulley, mount the engine pulley to the P.T.O. shaft. Insert the 3/8"-24 set-screw in the engine pulley and position pulley so hub is flush with end of P.T.O. shaft. See Figure 2.

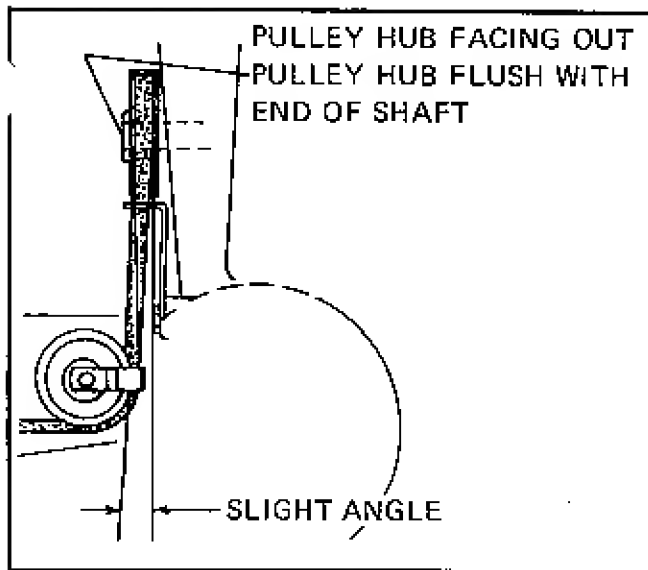


Figure 2.

4. Remove the 5/16"-18 x 1-1/4" long hex capscrew, lock and plain washer from tractor directly below the front mounted power take-off shaft. Insert through the two belt stops and reassemble. Do not tighten. See (1), Figure 3. Right hand belt stop next to bolt head. Left hand stop next to tractor.

5. Attach hitch assembly to tractor with the two pins and two spring clips. See Figure 3.

6. Place belt around front mounted engine pulley. See Figure 3.

7. Adjust belt fingers approximately 1/16" from belt when engaged. Secure the 3/16"-18 x 1-1/4" capscrew.

8. Apply a light coating of oil to the neck of the discharge spout. Install spout and extension as shown.

9. Attach the rod guide support to top hole of lift rod bracket with 3/8"-16 x 1-1/4" capscrew, 3/8" lockwasher and 3/8"-16 full hex nut. Do not tighten. See (2), Figure 1.

10. Insert spout control tube into nylon gearing on body assembly (See (3), Figure 1) and secure in place with two 1/8" x 3/4" cotter pins. Insert the spout control rod in the spout control tube and secure with the 5/32" x 1" cotter pin.

11. Position discharge spout directly forward. Position control tube so the cable clamp faces the side of the spout. Provide 2-1/2 coils on top and 2-1/2 coils on the bottom. The end of the cable closest to operator passes under the tube. The end away from operator passes over the top of tube. See (2), Figure 3. In order to insure tightness of the spout cable, it is helpful to slant the control tube slightly inboard in relation to the rod guide support as shown in Figure 4. Position the free ends of the cable around the spout and clamp securely with the cup washer, 5/16" lockwasher and 5/16"-18 full hex nut. Move the spout control rod back to the rod guide support and secure with the clamp, liner and 5/16"-18 x 1-1/4" capscrew and 5/16"-18 lock nut. Tighten securely to permit spout control rod to be turned with slight pressure applied.

12. Tighten the 3/8"-16 full hex nut on rod guide support which is in the top hole of the lift rod bracket, at angle desired by operator while on seat.

13. Remove forward, top capscrew from right hand side panel. Insert clutch handle bracket between side panel and side member of fuel tank and steering post support assembly. Secure with same capscrew and lockwasher. See (3), Figure 3.

14. Insert clutch control rod through bracket and attach to clutch pivot and secure in place with spring clip. See (3), Figure 3.

15. The lift lever quadrant on the left side of the tractor contains a series of holes and a pin. Place the pin in the foremost hole of the quadrant and secure in place with spring clip. Release the lift lever and place in a forward position. Attach the yoke end of front lift rod to the lift lever arm using lower hole, on the right hand side of the tractor with yoke pin and spring clip. Insert lower end of lift rod into lift arm bracket of push bar and secure with spring clip. The lower end of the front lift rod is to point towards the tractor. See (4), Figure 3.

At this point when the lift lever is about 1/4" away from the pin in the quadrant, the rotor housing should be in contact with the ground. This

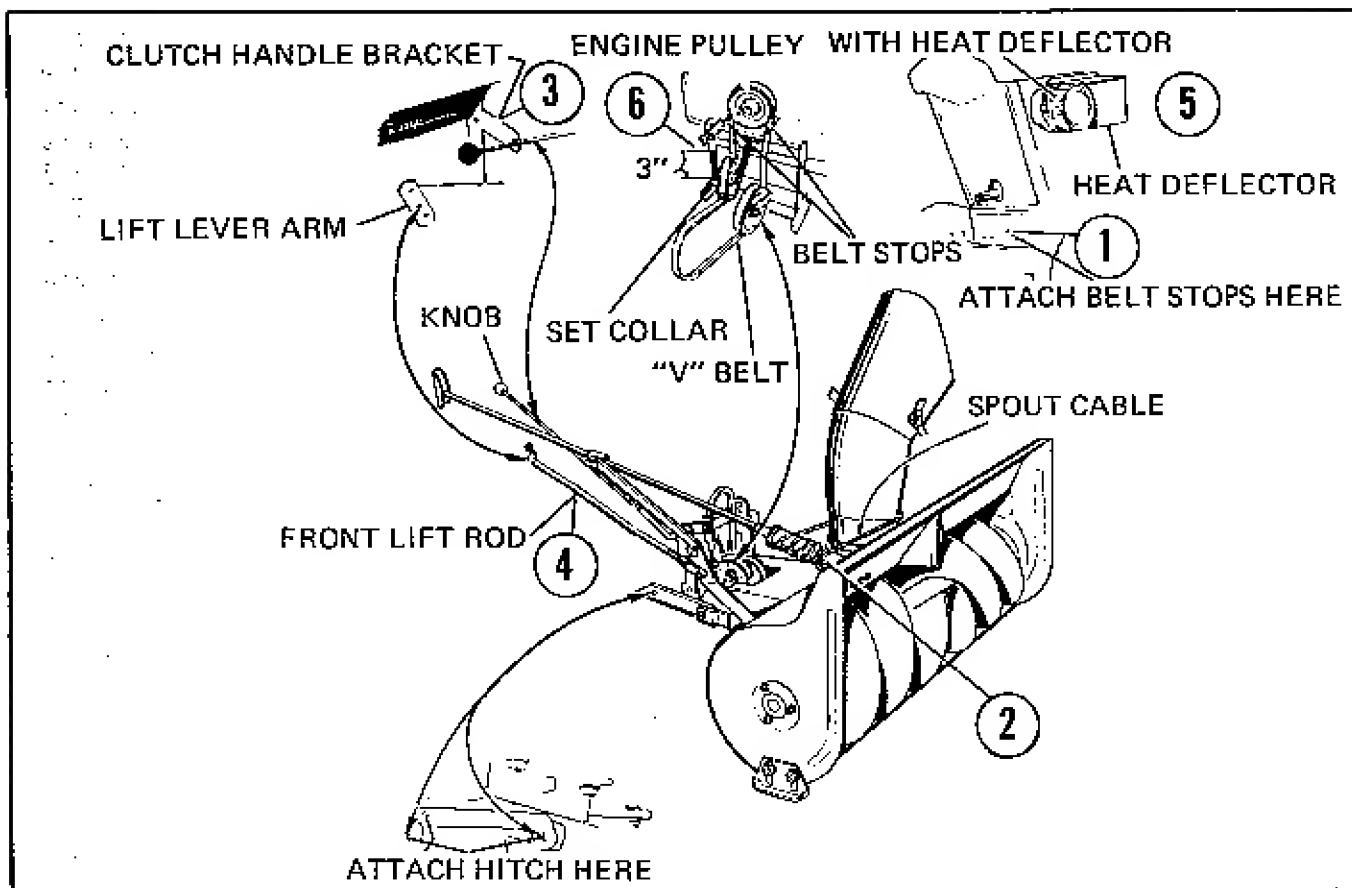


Figure 3.

will allow the plow to follow the contours of the surface being plowed but the quadrant pin will prevent the lift lever from latching in the forward position if the plow is driven over a curbing.

16. Position heat deflector over the muffler and adjacent to the engine. Flap of deflector to be positioned against air cleaner. Secure with clamp provided. See (5), Figure 3. this deflector is provided for winter use only and must be removed in warm weather to prevent overheating and damaging of engine. The deflector directs a flow of warm air around the carburetor and allows for more efficient winter operation of the tractor engine.

17. A winter gas cap is provided for use when throwing snow. The winter gas cap is designed to prevent a vapor lock in the gas tank.

18. Attach the skid shoes to the body assembly using the 3/8"-16 x 3/4" carriage bolts, 3/8" plain washer, 3/8" lockwasher and 3/8"-16 full hex nuts.

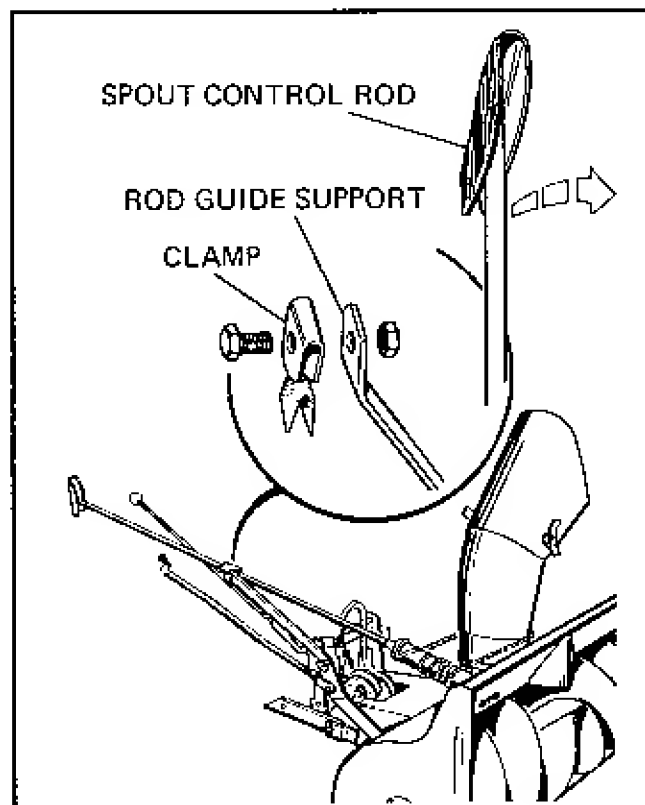


Figure 4.

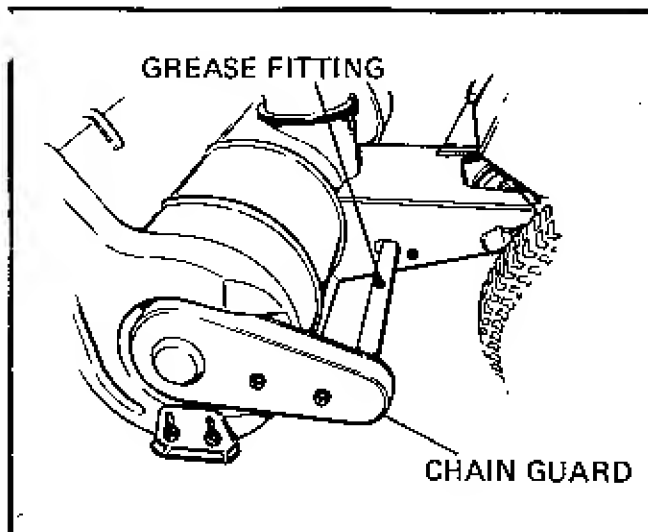


Figure 5.

LUBRICATION

There is one grease fitting on the Snow Thrower. See Figure 5. Lubricate with a general purpose automotive type grease every 15 hours of operation. Remove the chain guard and apply a coating of grease on chain every 15 hours of operation. Occasional application of light motor oil as indicated on Page 3 will also assist in the operation of the snow thrower.

BELT ADJUSTMENT

With belt disengaged, the spring (6), Figure 3, should be compressed to 3". Additional adjusting must be done by re-positioning the set collar located at the bottom of the spring. If adequate belt slack cannot be obtained, only then is it recommended to re-position the bearing housing (Ref. Let. AJ Page 8) towards operator.

OPERATION

1. Engagement of Snow Thrower is accomplished by pushing the clutch handle forward. Pull knob to operator for disengagement. It is important to maintain constant torque on the nut (Ref. Let. AP Page 7). This will keep Snow Thrower disengaged when clutch handle is in the disengaged position.

2. The skid shoes on each side of the rotor housing are adjustable either up or down to suit the

surface over which the snow thrower is to be operated. For a smooth surface, loosen the nuts and set the shoes so that the lower edge of the rotor housing rides on the surface. For use over an uneven or rough surface, adjust the shoes for maximum lift.

When using the snow thrower, set the discharge spout so that the snow will be thrown with the wind and never into the wind. Throwing snow into the wind will be a source of discomfort to the operator. To alter the direction of discharge, rotate the spout by means of the spout adjusting handle. The distance that the snow may be thrown may be adjusted by loosening the two wing nuts on the discharge spout extension and raising or lowering the extension to give the desired angle. After adjusting, push the extension snugly against the spout assembly to prevent snow from being blown backwards against the tractor and operator. Slotted holes beneath the wing nuts will allow this to be done before tightening the wing nuts to hold the extension in the desired position.

3. When operating through excessively heavy drifts of snow, pull back on the lift lever and raise the snow thrower while taking the first pass through the drift. Then back off and lower the snow thrower and go through again. After the first path through the drift has been opened, it may be convenient to use only a portion of the width of the snow thrower on succeeding passes. Naturally, efficient plowing methods will vary from one snowfall to another and from location to location and the location and the operator must judge for himself which methods produce the best results.

NOTE

When operating in extremely heavy and/or wet snow, a path less than a full width should be taken. In this type of situation the operator should ease the blower into the snow by using the clutch and brake pedal and keeping the engine at top speed. This will alleviate the problem of the auger becoming plugged up and burning the belt.

4. When transporting the snow thrower from one location to another, disengage the power take-off and pull the lift lever back to the latched position and carry snow thrower in raised position.

5. When throwing snow it is recommended the tractor be operated in first or second gear and the throttle be at 3/4 to full depending on the conditions.

STORAGE

After completion of plowing operation, allow the tractor engine to operate in a sheltered area for about 5 minutes to dry itself and prevent the formation of ice. When possible, store the snow thrower in a cold area so that clinging snow will not melt and re-freeze into ice.

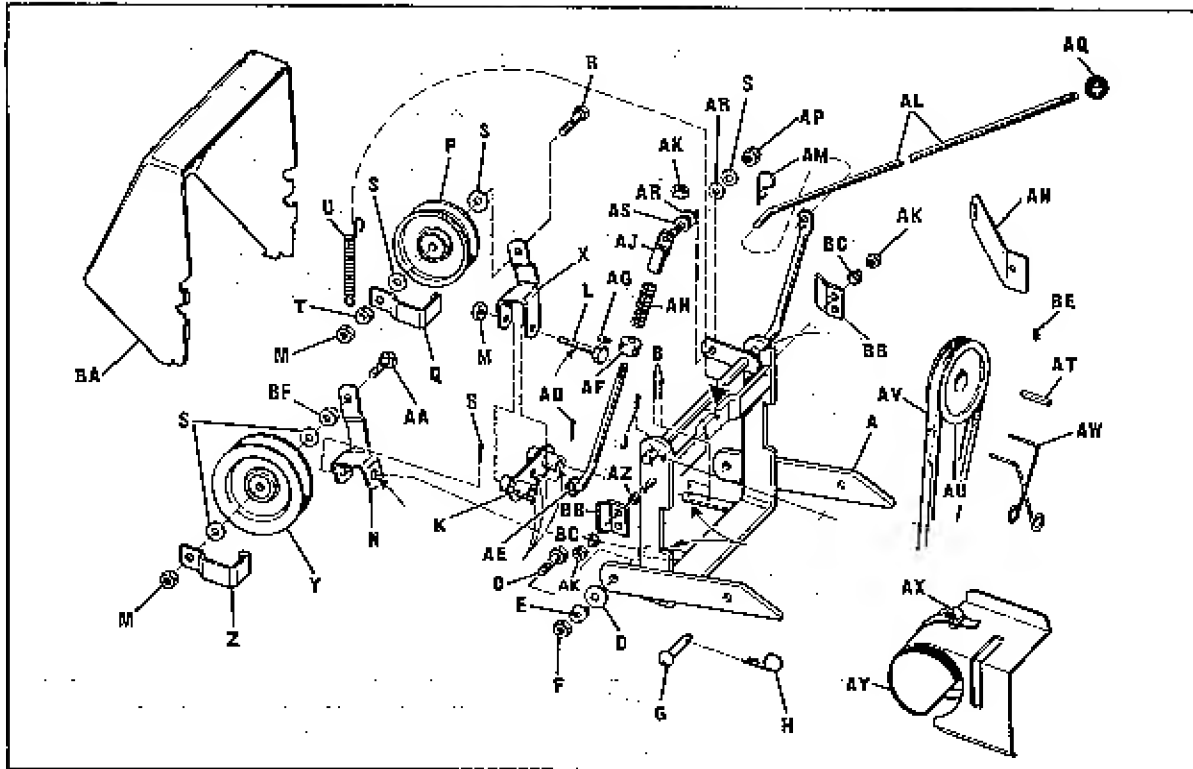
SAFE SNOW REMOVAL IS NO ACCIDENT

Improper use of snow removal equipment on the part of the operator can result in injury. To reduce this possibility, give complete and undivided attention to the job at hand.

Protect Yourself and Others By Following These Safety Tips.

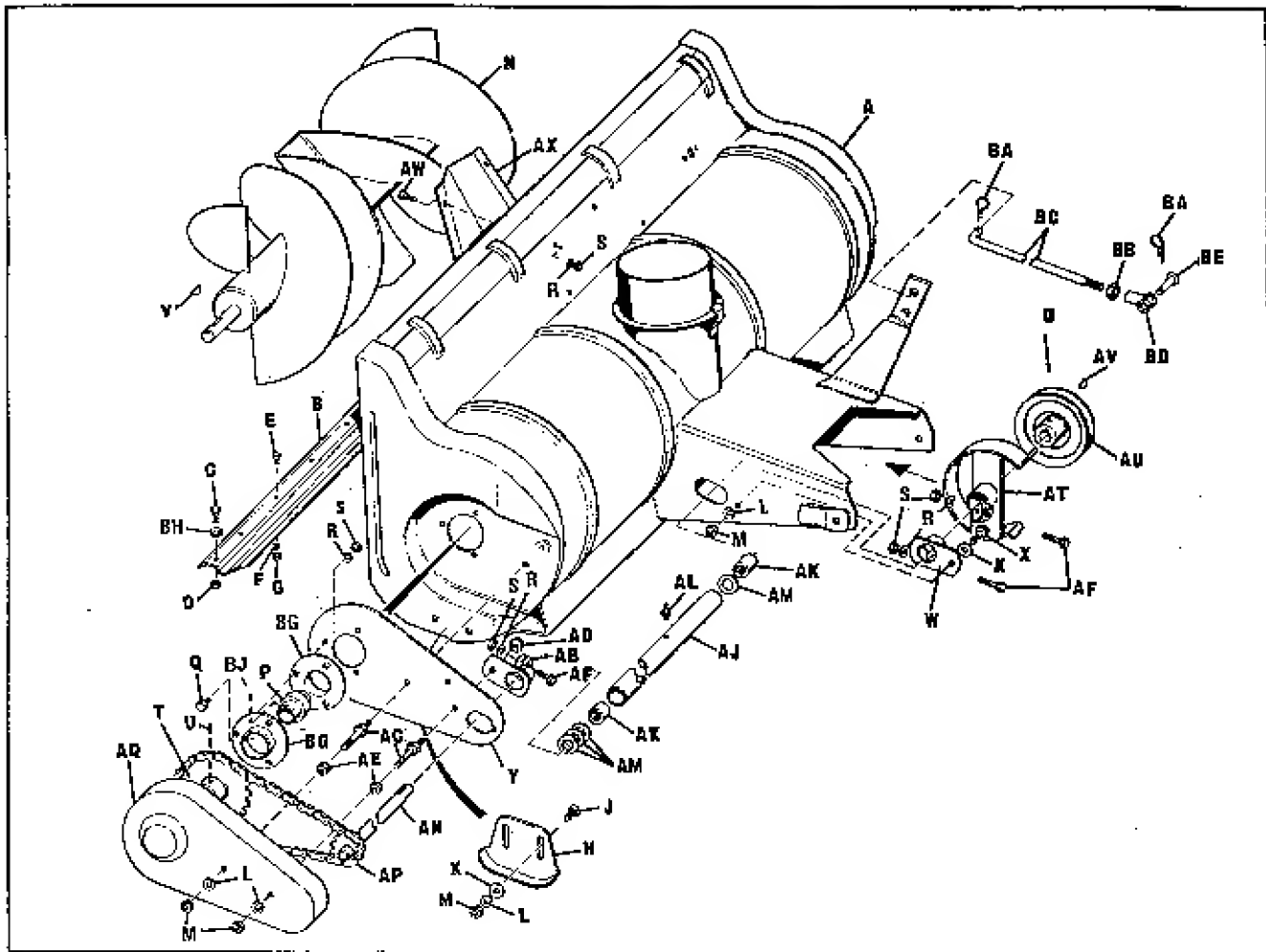
1. Disengage power and stop motor before cleaning discharge, removing obstacles, making adjustment, or when leaving operating position.
2. Never direct discharge at bystanders nor allow anyone in front of machine -- debris may be hidden in the snow.
3. Keep children and pets a safe distance away.
4. Do not allow children to operate machine nor allow adults to operate it without proper instructions.
5. Adjust height to clear gravel or crushed rock surface.
6. Exercise caution to avoid slipping or falling, especially when operating in reverse.
7. Know the controls and how to stop quickly -- read the owner's manual.
8. Handle gasoline with care -- it is highly flammable.
 - a. Use approved gasoline container.
 - b. Never add gasoline to a running motor -- fill tank out of doors and wipe up spilled gasoline.
 - c. Replace gasoline cap securely.
 - d. Open doors if motor is run in garage -- exhaust gases are dangerous.
9. Disengage all clutches and shift into neutral before starting motor. Keep hands, feet and clothing away from power driven parts.
10. Use a grounded three wire extension cord for all plug-in electric units.
11. Keep machine in good operating condition and keep safety devices in place.

HITCH & PULLEY GROUP



Ref. Let.	Part No.	Description
A	106726	Hitch Assembly
B	722006	Cotter Pin, 1/8" Dia. x 1"
C	121184	Hex. Cap Screw
D	719001	Plain Washer, 3/8"
E	721701	Spring Washer, 3/8"
F	717515	Full Lock Hex Nut, 3/8"-24
G	118053	Pin
H	106788	Spring Clip
J	722006	Cotter Pin, 1/8" Dia. x 1
K	106674	Lever Ass'y Idler
L	705003	Hex. Cap Screw
M	717510	Full Lock Hex. Nut, 3/8"-16
N	161154	Idler Bracket
P	106716	Idler Pulley
Q	106717	Guide Belt
R	705009	Hex. Cap Screw, 3/8"-16 x 1-1/2"
S	719002	Plain Washer, 5/16"
T	717013	Hex. Jam Nut
U	106681	Return Spring
X	106694	Idler Bracket
Y	101096	Idler Pulley
Z	106690	Belt Guide
AA	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4"
AD	722001	Cotter Pin, 3/32" Dia. x 3/4"
AE	106770	Clutch Rod

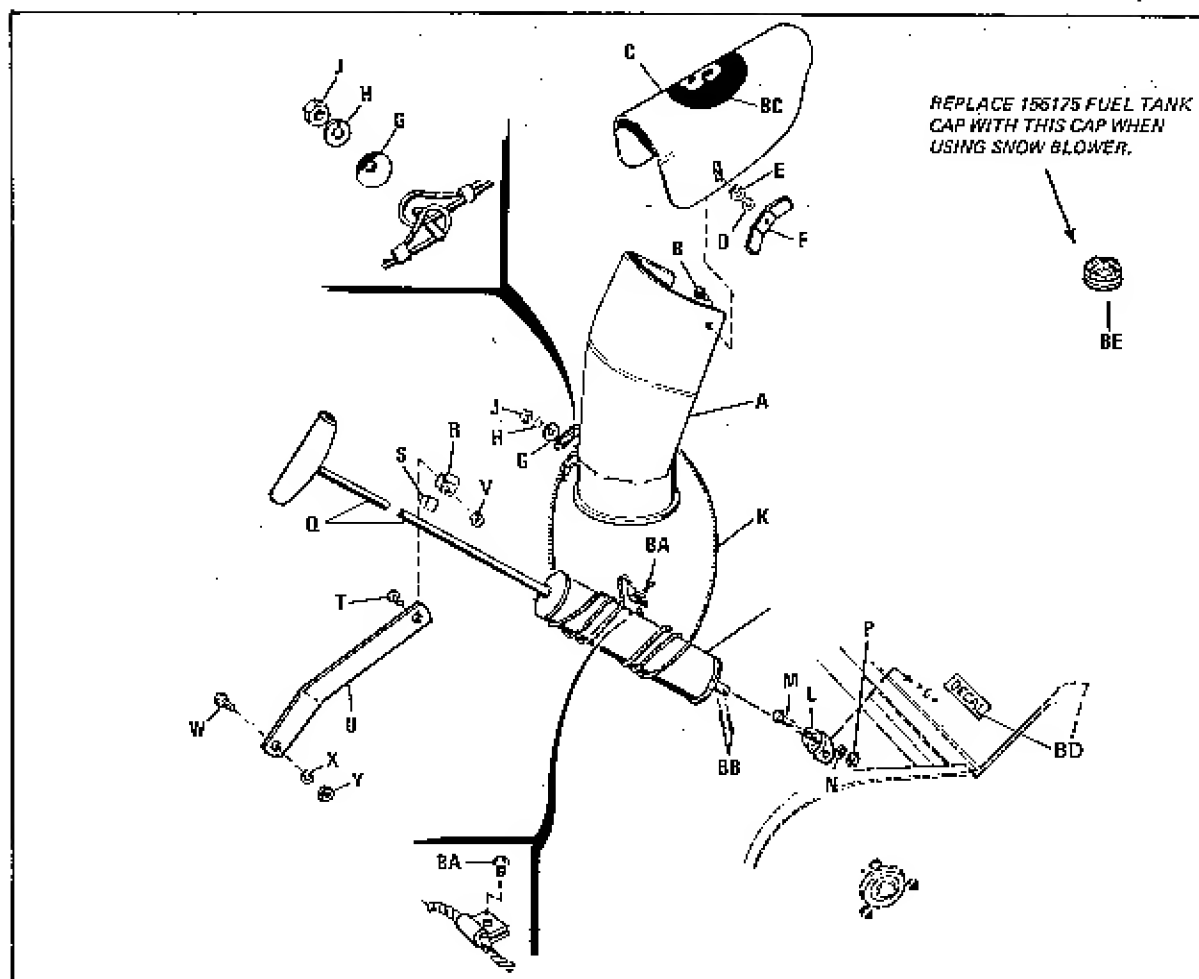
Ref. Let.	Part No.	Description
AF	8191022	Set Collar
AG	713001	Set Sq. Hd. Cup Pt. Screw, 1/4"-20 x 3/8" lg.
AH	8191045	Spring
AJ	106768	Road Assembly Guide
AK	717511	Hex. Full Lock Nut, 5/16"-18
AL	106710	Clutch Handle
AM	106787	Spring Clip
AN	106687	Bracket
AP	717525	Nut, Stop, 5/16"-18
AQ	122006	Knob
AR	159134	Nylon Washer
AT	159129	Key
AU	106761	Engine Pulley
AV	106769	V-Belt
AW	106707	Belt Stop
AX	106692	Deflector Clamp
AY	106789	Heat Deflector
AZ	106731	Spacer
BA	106730	Cover, Pulley
BB	106728	Clip, Pulley Cover
BC	157127	Spring, Conical
BE	715049	Set Screw
BF	154177	Spacer



Ref. Let.	Part No.	Description
A	106871	Body Assembly
B	106863	Body Scraper
C	715071	Hex. Cap Screw, 5/16"-18 x 5/8"
D	717511	Full Lock Hex. Nut, 5/16"-18
E	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
F	720003	Lock Washer, 1/4"
G	717005	Full Hex. Nut, 1/4"-20
H	106747	Skid
J	703004	Carriage Bolt, 3/8"-16 x 3/4"
K	719001	Plain Washer, 3/8"
L	720002	Lock Washer, 3/8"
M	717003	Full Hex. Nut, 3/8"-16
N	106856	Rotor Assembly
P	106732	Bearing Cartridge w/713509 Set Screw
Q	705017	Hex. Cap Screw, 5/16"-18 x 3/4"
R	720001	Lock Washer, 5/16"
S	717001	Full Hex. Nut, 5/16"-18
T	106653	Rotor Sprocket
U	713603	Set Screw, 5/16"-18 x 5/16"
V	151040	Hi-Pro Key
W	106476	Support Assembly Clamp
X	705005	Hex. Cap Screw, 3/8"-1 x 1"
Y	106745	Side Plate
AB	106476	Support Assembly Clamp

Ref. Let.	Part No.	Description
AC	106771	Stud
AD	718035	Nut, Flange, 3/8"-16
AE	717510	Full Lock Hex. Nut, 3/8"-16
AF	705018	Hex. Cap Screw, 5/16"-18 x 1-1/2"
AJ	106864	Bearing Housing
AK	154256	Needle Bearing
AL	727002	Grease Fitting
AM	8061012	Washer
AN	106860	Shaft Assembly
AP	106058	Chain
AQ	106759	Chain Guard
AT	106660	Belt Guard Assembly
AU	106663	Pulley
AV	725003	Key, 3/16" Dia. x 3/4"
AW	705012	Hex. Cap Screw, 5/16"-18 x 5/8"
AX	106774	Deflector
BA	106788	Spring Clip
BB	717008	Full Hex. Nut, 1/2" x 20
BC	106773	Front Lift Rod
BD	157631	Adjusting End Yoke
BE	154305	Yoke Pin
BG	161069	Bearing Flange
BH	719006	Washer
BJ	713509	Set Screw 1/4"-28 x 1 1/4 LG

SPOUT GROUP



Ref. Let.	Part No.	Description
A	106762	Spout Assembly
B	703005	Carriage Bolt, 5/16"-18 x 3/4"
C	106760	Spout Extension
D	719001	Plain Washer, 3/8"
E	721601	Special Hex. Lock Washer, 3/8"
F	106229	Wing Nut
G	106785	Cup Washer
H	720001	Lock Washer, 5/16"
J	717001	Full Hex. Nut, 5/16"-18
K	161133	Cable Assembly
L	106491	Bearing
M	705015	Screw Hex Cap 16 1/4"-20 x 5/8" LG
N	720003	Lock Washer, 1/4"
P	717005	Full Hex. Nut, 1/4"-20
Q	170132	Tube Assembly - Spout Control

Ref. Let.	Part No.	Description
R	152050	Rod Guide
S	121175	Guide Liner
T	705019	Hex. Capscrew, 5/16"-18x1-1/4"
U	106666	Rod Guide Support
V	717511	Full Hex. Lock Nut, 5/16"-18
W	705016	Hex. Capscrew, 3/8"-16x1-1/4"
X	720002	Lock Washer, 3/8"
Y	717003	Hex. Nut, 3/8"-16
BA	715067	Self-Tapping Screw, 1/4-20 x 3/8"lg.
BB	722016	Cotter Pin, 1/8" x 3/4"
BC	106512	Decal
BD	103031	Safety Decal
BE	106798	Cap-Fuel, Tank

WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products altered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name _____

Address _____

Mfg. No. _____ Serial No. _____

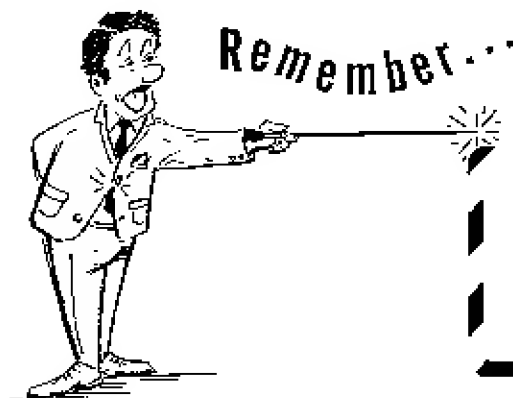
Date Purchased _____

Purchased From _____

Address _____

Engine Model No. _____ Serial No. _____ Type No. _____

To obtain replacement parts from dealer, advise quantity, part number and description.



FOR YOUR SAFETY

1. ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
2. ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
3. ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS

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1. The first part of the paper is devoted to a discussion of the various methods of determining the rate of growth of the economy. The second part is devoted to a discussion of the various methods of determining the rate of growth of the population. The third part is devoted to a discussion of the various methods of determining the rate of growth of the capital stock. The fourth part is devoted to a discussion of the various methods of determining the rate of growth of the labor force. The fifth part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity. The sixth part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity. The seventh part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity. The eighth part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity. The ninth part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity. The tenth part is devoted to a discussion of the various methods of determining the rate of growth of the total factor productivity.



SIMPLICITY MANUFACTURING COMPANY, INC.
PORT WASHINGTON, WISCONSIN 53074